

# INSTALLATION GUIDE AND USER'S MANUAL



Fastlane Pool

  
**ENDLESS POOLS®**  
SWIMMING MACHINES

## Installation Instruction Booklet Information

Endless Pools, Inc. provides for every aspect of a Fastlane Pool project. This manual assists in the installation process, as well as the general maintenance of your Fastlane Pool.

Additional available resources including the Planning Guide and selected Supplemental Guides are available to you. These documents are available online at [www.myendlesspool.com/downloads.html](http://www.myendlesspool.com/downloads.html). In addition, we encourage installers to call our Customer Service Department at (800) 910-2714 before beginning installation to register their projects and sign up for weekend technical support.

**Please be advised that gloves and safety goggles should be worn during the installation of a Fastlane Pool.**

Please take into consideration the following before proceeding:

If you have purchased the Optional Heater/Controller package, that will require a 3-wire (w/ neutral) 220v, 30 amp, GFCI power supply.

If you have purchased the standard package, than no neutral is required and the wire can be left unused.

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## RECEIVING THE FASTLANE POOL

The Fastlane Pool is shipped via UPS and contains at least 16 packages:

**Box 1:** Fastlane Pool Power Unit

**Box 2:** Biodegradable Vegetable Fluid

**Box 3:** Fastlane Pool Swim Unit Housing

**Box 4:** Fastlane Pool Swim Unit Accessories

Qty 2 - Hydraulic Hose Protective Channels

Qty 1 - Acrylic Top for Swim Unit

Qty 1 - Acrylic Hanging Bracket

Qty 1 - Top Bumper

Qty 1 - Lower Standoff

Qty 1 - Owner's Manual Kit (Padded Envelope)

Qty 1 - Owner's Manual

Qty 2 - Hydraulic Adapters (8 Female JIC x 6 Male JIC)

Qty 1 - Fastlane Pool Bonding Kit

Qty 36 - 3/4" 10-32 Machine Screws

Qty 10 - 1" 10-32 Machine Screws

Qty 4 - Rubber Grommets

**Box 5:** Fastlane Pool Swim Unit Base

**Box 6:** Fastlane Pool Liner Box (Only for a 9x13 Pool)

Qty 1 - Pool Liner

Qty 2 - Vertical Struts

Qty 4 - Top Corner Tubes

Qty 4 - Bottom Corner Tubes

**Box 6a** (Only for a 9x17 Pool)

Qty 1 - Pool Liner

Qty 4 - Vertical Struts

Qty 4 - Top Corner Tubes

Qty 4 - Lower Corner Tubes

Qty 2 - 120cm Top Straight Tubes

Qty 2 - 120cm Bottom Tubes

**Box 7:** Fastlane Pool Strut Box

Qty 8 - Vertical Struts

**Box 8:** Fastlane Pool Tube Box

Qty 2 - 120cm Top Straight Tubes

Qty 2 - 60cm Top Straight Tubes

Qty 3 - 120cm Straight Bottom Tubes

**Box 9:** Fastlane Pool Tube Box

Qty 2 - 120cm Top Straight Tubes

Qty 2 - 60cm Top Straight Tubes

Qty 3 - 120cm Straight Bottom Tubes

**Box 10:** Fastlane Pool Water Quality System

Qty 1 - 50sq ft Skim Filter

Qty 1 - Circulating Pump

Qty1 - Plumbing Parts bag

Qty 2 - Thru-wall Fittings

Qty 2 - MPT x Slip 90° Street Elbows

Qty 2 - Slip x Slip Unions

Qty 2 - Slip x Slip Ball Valves

Qty 2 - Pump Unions with O-Rings

Qty 1 - Male Slip x Female Slip 90° Street Elbow

Qty 1 - MPT x Insert Adapter

Qty 1 - MPT x Insert 90° Elbow

Qty 2 - Plastic Hose Clamps

Qty 2 - Threaded Plug with O-Ring

Qty 1 - Eyeball Fitting

Qty 1 - 4oz PVC Cleaner

Qty 1 - 4oz PVC Cement

Qty 1 - Teflon Tape

Qty 1 - Liquid Tite Electrical Fitting

Qty1 - Fastlane Pool Start Up Bag

Qty 1 - Container of Test Strips

Qty 1 - Water Clarifier

Qty 1 - pH Increaser

Qty 1 - pH Decreaser

Qty 1 - Vinyl Cleaner

Qty 1 - Bag of Shock

Qty 1 - Nature 2 Purifying Cartridge

**Box 11:** Fastlane Pool Skim Filter Housing Assembl

Qty 1 - Skim Filter Housing

Qty 2 - Large Bent Tabs

Qty 2 - Small Bent Tabs

Qty 10 - 1/2" 10-32 Stainless Steel Machine Screws

Qty 5 - 1" Self Tapping Stainless Steel Screws

Qty 1 - 11/64" Drill Bit

Qty 1 - 3' Length of Suction Hose

**Box 12:** Fastlane Pool Equipment Hutch

Qty 1 - Equipment Hutch

Qty 1 - Equipment Mounting Board

Qty 1 - Pump Mounting Clamp

**Box 13:** 50' Roll of Flexible PVC

**Box 14:** Fastlane Pool Ladder

**Box 15:** Solar cover

**Box 16:** Optional Heater Controller

Qty1 - Heater Controller

Qty1 - Keypad for Heater Controller

Qty2 - Heater Tail Piece

Qty2 - Heater Tail Piece T Gaskets

Qty1 - Slip x Slip 90° Elbow

Qty1 - Male Slip x Female Slip 90° Street Elbow

Qty1 - 6-1/2" PVC Nipple

Qty1 - 4-1/4" PVC Nipple

Qty1 - Heater Controller Mounting Clamp

Qty4 - 3/4" 10-32 Machine Screw

Qty4 - 10-32 KEP Nut

## POOL POSITIONING

To ensure ideal operation of the Fastlane Pool, consider the following steps when selecting a location for the pool.

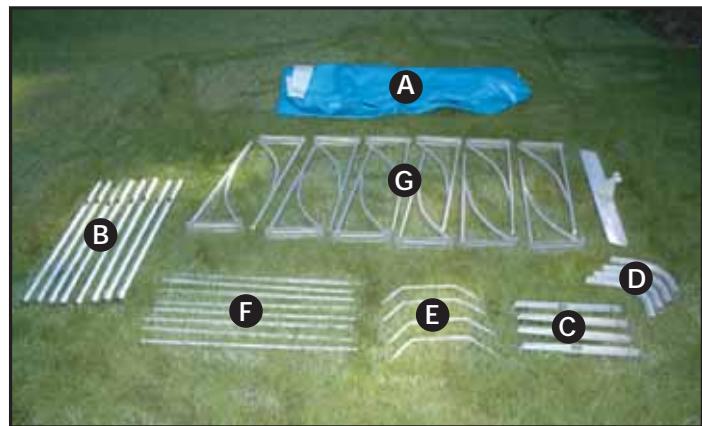
- Look for an area that receives maximum sunlight for increased heat and extended use.
- Find a location with minimal wind exposure to minimize heat loss.
- Be aware of the amount of trees and shrubbery around the pool to limit the amount of debris that may accumulate in the pool.
- Select a location with accessibility to water and electric sources.
- Consider privacy when selecting a location.

## GROUND PREPARATION

The surface the Fastlane Pool is to be assembled on must be firm and level. The Fastlane Pool must be installed as level as possible, within 2"- 3" of level (from the highest point to the lowest point of the pool). If the pool will be assembled on a sloping surface, be sure to install the skimmer on the lower side to ensure that it will not suck air into the pump. If the ground is not level and it is desired to make a more level surface, take the earth from the high area of the uneven surface; do not add earth to the low area of the surface. Once the surface is level, clear any debris or sharp objects that may be uncomfortable to walk on or could become a puncture hazard for the liner. Foam flooring may be added under the liner for additional comfort.

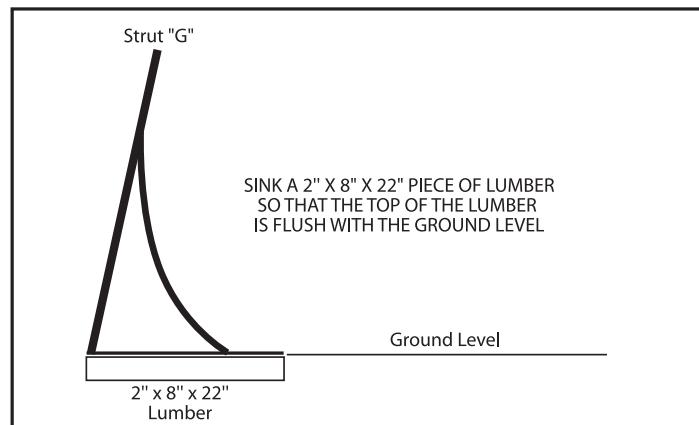
The pool is comprised of various parts. Therefore, before proceeding with installation, ensure that all necessary parts for the pool are present and group like parts together.

Part Description	Quantity
(A) Liner	1
(B) Top 130cm straight tubes (wider)	6 (8 for Longer Pool)
(C) Top 60cm straight tubes (wider)	4
(D) Top corner tubes (wider)	4
(E) Bottom corner tubes (thinner)	4
(F) Straight bottom tubes (thinner)	6 (8 for Longer Pools)
(G) Struts	10 (12 for Longer Pools)



The supporting legs, or struts (Part G), support much of the weight of the Fastlane Pool and may need additional support in "soft ground" installations, or in areas that may experience excess ground water. A 2"x 8" x 22" piece of lumber installed under each strut's base and leveled with the ground is very effective. Make sure the entire base of each strut is on the 2" x 8" lumber as any over-hang may result in bending of the strut. A concrete slab of the similar dimensions may be used as well. Please note that any support(s) added under the pool structure must be recessed so that the top of the support is level with the ground surface. Lifting the struts or frame in any manner may cause excessive stress on the liner and frame, and may void the Fastlane Pool warranty. (Refer to Diagram #1: Supporting Legs / Struts.)

## DIAGRAM #1: SUPPORTING LEGS / STRUTS



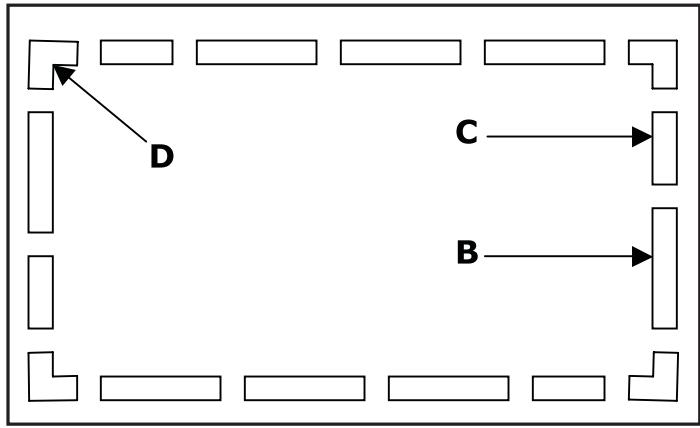
## POOL ASSEMBLY

1. Unfold and spread out liner (Part A) on the prepared area.  
**NOTE:** Keep in mind the desired "swim direction" when positioning the liner, because when the Fastlane Pool is fully assembled, the swim direction will be headed towards the end of the pool that has the pre-cut holes. These holes are for the water quality thru-wall fittings and hydraulic hoses.
2. Align the struts (Part G) with the prepared cut outs at top of liner.



3. Connect bottom tubes (Part F) to struts (Part G) one at a time to make the four sides of the pool. Connect corner tubes (Part E) to the open ends of both struts to finish each of the four corners.



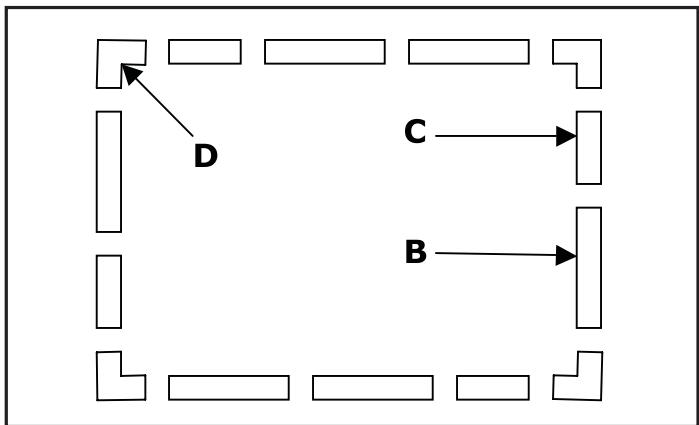


Longer (9' x 17') Fastlane Pool

4. Connect the top tubes (Parts B and C) together. **NOTE: The shorter tube (Part C) is always the last tube on the right when facing the pool wall.** (Refer to Diagram #2: Wider Straight Tube Layout.)



#### DIAGRAM #2: WIDER STRAIGHT TUBE LAYOUT



Standard (9' x 13') Fastlane Pool

## FASTLANE SWIM UNIT ASSEMBLY



1. Verify that all items have arrived. **NOTE: If using a power drill, do NOT over tighten the screws, as this will strip the thread in the PVC of the Fastlane Swim Unit.**



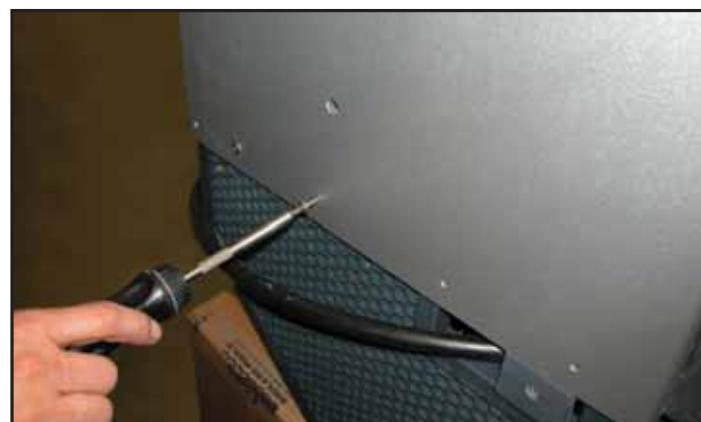
2. Carefully unpack the Swim Unit Housing, Swim Unit Base and its components from box numbers 10, 11 and 13 (Refer to section titled, RECEIVING THE FASTLANE POOL). Remove and verify all hardware kits from inside. Close the boxes and flip them upside down on the ground to use as a workbench or collapse the boxes and use as a smooth surface to protect the components from scratching.

3. Turn the Swim Unit Housing upside down on the box or another smooth surface. Remove the block of wood by removing the screws that attach the wood to the Swim Unit Housing. The wood is for packaging purposes only and may be discarded.



4. Remove the screws on the two sides and the front of the Swim Unit Housing that secure the throat. Set the throat and the screws aside to be used in Step 13.

5. Set the Swim Unit Base on the cardboard box with the cylinder facing up. Lay the hydraulic hoses that come pre-attached to the Swim Unit Base to each side so that they are out of the way. Flip the Swim Unit Housing over and set on top of the Swim Unit Base. Secure the Swim Unit Base to the Swim Unit Housing by using six of the 1" stainless steel screws provided (three screws on each side). **NOTE: Do not over-tighten.**



6. Carefully feed the bond wire that is attached to the Swim Unit Base up behind the horizontal honeycomb grill located in the bottom of the Swim Unit Housing and up through the turning vanes. Install the grab rail using six 3/4" stainless steel screws

6. Insert and connect the top corner tubes (Part D). It may be helpful to insert both ends of corner tube into the corresponding liner sleeves, and then pull back on the corner tube to connect



7. Ensure that all tubes around the perimeter are completely nested in one another and properly connected, and that no parts of the frame are racked or crooked.

8. Slowly begin to fill the pool with water until the bottom of the liner is almost taught. Remove any wrinkles in the pool liner at this time, as it will be difficult to do so once there are more than just a few inches of water in the pool.

9. To prevent leaking issues, it is very important to plumb and plug both through walls before the water level reaches the two pre-cut holes in the liner. For more information, refer to the section in this Owners' Manual titled, WATER QUALITY SYSTEM, SKIMMER & THRU-WALL FITTINGS.

10. Once these holes have been plugged, assemble the Fastlane Swim Unit.

and the six 10-32 stainless steel lock nuts provided. Secure the bond wire that has been fed up through the turning vanes under one of the six screws. Secure the other bond wire that has been pre-installed in the Swim Unit Housing under a second screw in the grab rail. **NOTE: Do not over-tighten.**

7. Run the hydraulic hose up the back of the Swim Unit Housing so that the PVC hydraulic hose protective channel will cover the hose. **Firmly secure but do NOT over tighten the eight stainless screws per channel.** Repeat for the second hose.



8. Once both protective channels are attached, pull the two hydraulic hoses tight and secure them to the top of the Swim Unit Housing using the green hose clamps provided. To accomplish this, unscrew the green hose clamps, insert the hoses, and re-screw the clamps snugly into the top of the Swim Unit Housing. Feed the bond wire (from Step 6) to the back of the Swim Unit Housing along one of the hydraulic hoses.



9. Attach the acrylic hanging bracket to the back of the Swim Unit Housing with four of the 3/4" stainless steel screws. **NOTE: Do not over-tighten. Leave the two top screw holes unused.**



10. Attach the top bumper piece (length of PVC pipe) to the Swim Unit Housing through the unused screw holes (top holes from Step 9) in the acrylic hanging bracket using two of the ten 1" stainless steel screws. **NOTE: Do not over-tighten.**



11. Attach the lower extension bumper to the rear of the Swim Unit Base using two 3/4" stainless steel screws. **NOTE: Do not over-tighten.**



12. Attach the wheels to the Swim Unit base. Slide the axle through the two holes that are marked in yellow on the intake grill in the Swim Unit base. These holes have been widened to allow the axle to pass through freely. There are a total of four large and two small washers used in the wheel assembly. Be sure that two large washers are located between each wheel and the intake grill. Secure the wheels to the axle with one smaller washer between the screw and the wheel on both sides.



13. Re-install the throat that was removed previously in Step 4.
  14. Place the Swim Unit on the ground and roll it close to the Fastlane Pool location for installation. Be careful not to tip over the Swim Unit, as it is front-heavy.
  15. Once the pool is nearly full and the liner is taught and wrinkle-free, carefully lift the assembled Fastlane Swim Unit into the pool at the skimmer end. Lower and position the Swim Unit so that the acrylic hanger “clips” on to the top straight tube (Part B) as shown in Step 18. The Swim Unit should be centered along the end of the pool.
  16. The hydraulic hoses can be simply left hanging over the top of the pool wall to run back to the Power Unit, or they can be fed through the pool wall as described in Steps 17 & 18. Attach the bond wire to the nearest supporting strut (Part G) using the provided self-drilling / self-tapping screw to bond the Swim Unit to the pool’s structural frame.
- (NOTE: Steps 17 & 18 are optional, skip to Step 19 if choosing not to feed hoses through the pool wall)**
17. If a more finished look is desired, four rubber grommets have been provided to fit into holes that can be cut into the top white section of the liner. Once the Fastlane Swim Unit has been properly placed in the pool and is centered along the width of the pool, locate the holes through which the hydraulic lines will run. Using a permanent marker (while outside the pool and along the exposed side of the acrylic hanger), dot the liner with two marks, each being 1-1/2" away from the vertical edges of the hanger (away from center) and 3" down from the top of the pool. Place a rubber grommet over the marks so that they are centered in the grommet openings. Trace the INSIDE of the grommets onto the liner. Using a utility knife with a sharp blade, SLOWLY and CAREFULLY cut out the traced circles. Refer to photo in Step 18 to verify hole location before cutting. NOTE: Cutting small curves or a circle with a utility knife can be difficult. It may be best to work in many small straight cuts for accuracy.
  18. Push the grommets into the holes so that the fabric edges tuck inside the grooves of the grommets. Repeat this process again for two more holes inside the pool. NOTE: When complete, the hydraulic hoses and bonding wire will be passing through two layers of fabric. It is important to feed the hydraulic hoses and bonding wire through both grommets, starting from inside the pool and then feeding them through the outer layer of fabric as shown in the photo below.
  19. Install the top cover of the Swim Unit Housing using six 3/4" stainless steel screws (three screws on each side).
  20. Run the hydraulic hoses back to the Hydraulic Power Unit. Using the provided bonding lug and self-drilling / self-tapping screw, fasten the bonding lug to the bottom of the same strut used in Step 16 (when the Fastlane Swim Unit was bonded to the pool’s structural frame). To bond the Fastlane Swim Unit and Fastlane Pool structure to the rest of the pool equipment, run a #8 AWG bare copper wire from the bonding lug (that was just attached) to the rest of the Water Quality System equipment and Hydraulic Power Unit. Always be sure to verify any additional bonding requirements that may be dictated by local codes and ordinances.

## WATER QUALITY SYSTEM, SKIMMER & THRU-WALL FITTINGS

Plumbing and Start-up Kit (See section titled, RECEIVING THE FASTLANE POOL, Box #10)

Qty 1	4oz Container of PVC Cleaner
Qty 1	4oz Container of PVC Cement
Qty 2	Pump Union with 1-1/2" Adapter with O-Ring
Qty 1	Male Slip x Female Slip 1-1/2" 90° Street Elbow
Qty 2	Female Slip x Female Slip Ball Valve
Qty 2	Female Slip x Female Slip Union
Qty 2	Male Pipe Thread x Female Slip 90° Street Elbow
Qty 1	1-1/2" Eyeball Fitting
Qty 2	1-1/2" Threaded Plugs with O-Ring
Qty 1	1-1/2" Male Pipe Thread x Insert 90° Elbow
Qty 1	1-1/2" Male Pipe Thread x Insert Adapter
Qty 1	3' Length of Flexible Hose
Qty 2	1-1/2" PVC Thru-Wall Fitting Female Thread (inside) x Female Thread (outside)

Additional Tools Required

- Tape measure
- Hack saw

## SKIMMER ASSEMBLY

1. Align the skimmer opening with the opening in the housing. Use the hardware provided with the skimmer to attach the skimmer to the housing. Make sure to use the skimmer face-plate when attaching the skimmer.



2. Attach the skimmer body to the skimmer housing. Align the 2 smaller tabs to the underside of the holes in the top of the housing. The long face of the small tab should be aligned with the circular opening in the housing. Use the provided machine screw to attach the small tab to the housing.
3. Once the skimmer is attached to the housing through the opening, use the provided drill bit to drill a hole into the skimmer through the hole in the small tab. Thread in a short machine screw into each hole, securing the skimmer to the small tabs.



4. Place the larger tab's smaller face onto the underside of the outside of the housing so that the pre-drilled holes are aligned. Use the provided sheet metal screws to attach the larger tabs to the housing.



5. Once the skimmer assembly is complete, place it inside the pool in the same corner as the lower thru-wall fitting. (front right)

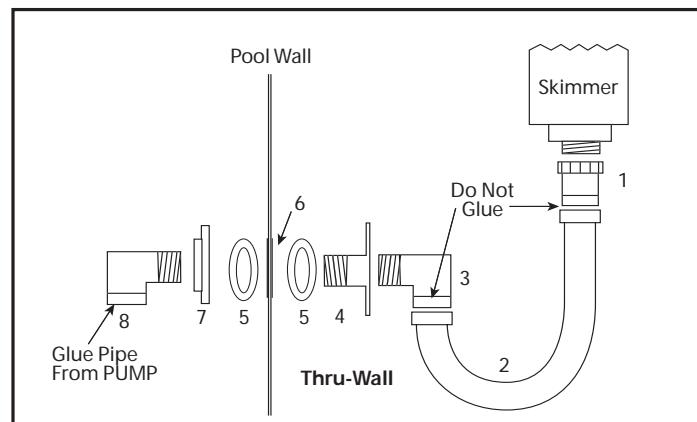
6. Use the provided drill bit and self-tapping screws to attach the skimmer assembly to the top tube of the pool. Position the holes in the larger tab with the center of the tube. Drill through the liner and tube with the drill bit. and then secure the assembly to the top tubes with the four self tapping screws.

## CONNECTING SKIMMER / SUCTION WALL FITTING

(Refer to Diagram #3: Skimmer / Suction Thru-Wall Diagram)

- Push fitting (#4) through the wall of the pool from the inside. **MAKE SURE TO USE A GASKET (#5) on both sides of the wall of the pool.** Place the cork ring next to the gasket outside the pool and secure the wall-fitting nut (#7) to (#4) now sticking through the pool wall. Tighten with a large pair of channel locks. Make sure the nut is very snug but do not over-tighten, as this may crack the fitting.
- Thread the union and insert adaptor (#1) into the bottom of the skimmer. **NOTE: No glue or tape is necessary to complete this step.**
- Inside the pool, thread the insert elbow (#3) into the thru-wall (#4).
- Wrap a small amount of Teflon tape around the end of the adaptor.
- Press the flexible hose (#2) onto each of these fittings. Use the provided plastic hose clamps to attach.
- Outside the pool, thread in the male portion of the street ell (#8) into the tailpiece of the thru-wall fitting (#4).
- When the water quality system equipment needs maintenance, the insert elbow fitting (#3) should be removed and the provided plug should be threaded into the thru-wall fitting (#4) to prevent the pool from draining.

DIAGRAM #3: SKIMMER / SUCTION THRU-WALL DIAGRAM



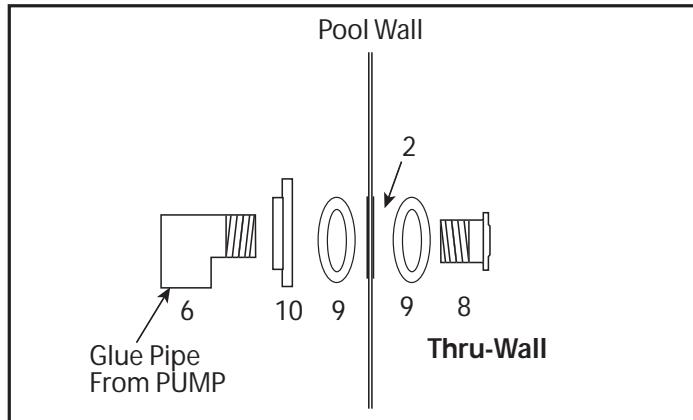
## CONNECTING RETURN WALL FITTING

(Refer to Diagram #4: Return Wall Fitting Diagram)

- Push fitting (#8) through the wall of the pool from the inside. **MAKE SURE TO USE A GASKET (#9) on both sides of the wall of the pool.** Place the cork ring next to the gasket outside the pool and secure the wall-fitting nut (#10) to (#8) now sticking through the pool wall. Tighten with a large pair of channel locks. Make sure the nut is very snug but do not over-tighten, as this may crack the fitting.

- Outside the pool, thread in the male portion of the street elbow (#6) into the tailpiece of the thru-wall fitting (#8).
- From inside the pool, thread the eyeball fitting into the thru-wall fitting (#8). Point the eyeball towards the bottom of the pool for optimal water circulation in the Fastlane Pool.
- When the water quality system equipment needs maintenance, the eyeball fitting should be removed and the provided plug should be threaded into the thru-wall fitting (#8) to prevent the pool from draining.

**DIAGRAM #4: RETURN WALL FITTING DIAGRAM**



## DRAINAGE

Drainage needs to be provided around the pool and near the water quality equipment. It is important to be prepared in the unlikely event of a leak. If operating the Fastlane Pool indoors, it is ideal to install floor drains in the area around the pool's perimeter, but not directly under the pool. It is worth the time and effort now to install a drainage system rather than be unprepared in the event of a mishap.

## FASTLANE HYDRAULIC POWER UNIT ASSEMBLY

The power unit should be placed on flat and level surface. Whether placed indoors or outdoors, this is an air-cooled unit and must have ample ventilation. Therefore, a minimum of 12" of air spaced must be provided on all sides of the power unit. In addition, the power unit needs to be checked periodically for maintenance and should be accessible.

The power unit is heavy, care should be taken when placing the power unit.

Once the power unit is in place, connect the run hoses. The low pressure hose, which will have red tape, gets connected to the connection on the black fill cap. The high pressure hose gets connected to the fitting on the high pressure manifold.

Make sure that the power is turned off to the power unit. Remove the fill black fill cap and remove the oil filter by lifting it out of fill opening. Use the provided paper funnels and fill the reservoir to within 2" of the top. Once filled, replace the oil filter and ensure that it is seated properly before putting the fill cap back on. If you have selected a longer run hose, we have provided extra fluid. In this case, turn the unit on and let it run for one minute to fill the run hoses. Turn the power off, remove the fill cap and oil filter, and add fluid as needed. Again, you want to fill the reservoir to within 2" of the top.

The power unit controller comes equipped with an automatic timer shutting off the system 30 minutes after receiving its last command. Because the controller "remembers" the last speed at which is turned off, it will return to that same pace when it is turned back on.

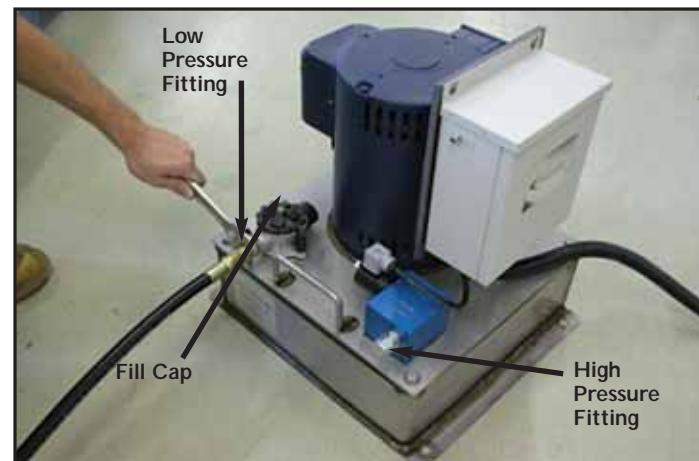
## BONDING AND GROUNDING

All of the electrical equipment that we supply is UL or CSA approved and must be installed in accordance with local electric codes by a licensed local electrician. Bonding and Grounding is an important part of that process. All electrical components have bonding lugs and should be bonded together and to the steel pool panels. A bonding conductor shall be solid copper not smaller than 8 AWG and may be insulated, covered or bare. If new construction is involved where reinforcing rods are installed in the concrete under or adjacent to the pool this should be included in the bonding circuit. Each of the pieces of equipment should be separately grounded.

A #8AWG bare copper wire is required for all bonding connections. Connect this wire to your power unit and run it, with your hydraulic hose and whip, to the front of the pool. Inside the bonding kit there will be a machine screw and nut, a bonding lug, and a drill bit. Feed the bonding wire through the bonding lug vertical strut at the front of the pool. Connect the Fastlane stainless steel bond wire and the bare copper wire to this bonding lug.

## HYDRAULIC FLUID

Fill the reservoir on the Power Unit no more than 2" from the top of the reservoir. Endless Pools, Inc. supplies a special non-petroleum fluid created for this application and this equipment. Do not use a substitute hydraulic fluid. Extra hydraulic fluid is provided for longer hose runs. Any excess fluid should be retained for future use.



Make sure that all hydraulic connections are tight, then press the ON button on the remote to turn on the Power Unit. Run for a minute or two then check for hydraulic leaks at the Power Unit and the pool and tighten if necessary. By pressing the OFF button on the remote you can turn off the Power Unit. Make sure you can do this.

## ASSEMBLING THE WATER QUALITY SYSTEM WITHOUT HEATER CONTROLLER

Loosely attach the circulating pump to the power unit. The pump will be attached to the handle of the power unit on the same side as the hydraulic connections. Place the circulating pump on to the power unit so that the suction of the circulating pump is facing out. Place the pump foot clamp on the underside of the power unit handle, aligning the holes in the pump foot clamp to the holes in

the pump foot. Use the provided screws to clamp the pump on the power unit handle.

Attach the pump union nuts to both fittings of the pump. Make sure that the o-rings are in place before attaching the union fittings. Glue a male slip x female slip street elbow into the pressure fitting of the pump so that it is facing away from the power unit. Cut two 2-1/2" lengths of flexible PVC off of the 50' roll of flexible PVC that was provided. Glue one of these lengths into the union fitting connected to the suction side of the pump. Glue the other length of 2-1/2" PVC into the elbow that is connected to the pressure union. Next glue a slip x slip ball valve onto each of the 2-1/2" lengths of flexible PVC. Finally, cut the 50' length down to the appropriate lengths to connect the suction side of the pump to the skimmer thru-wall assembly and connect the pressure side of the pump to the return thru-wall assembly.



## ASSEMBLING THE WATER QUALITY SYSTEM WITH HEATER CONTROLLER

**Note:** Additional PVC fittings can be found in the Heater Controller box. Loosely attach the circulating pump to the power unit. The pump will be attached to the handle of the power unit on the same side as the hydraulic connections. Place the circulating pump onto the power unit so that the suction of the circulating pump is facing out. Place the pump foot clamp onto the underside of the power unit handle, aligning the holes in the pump foot clamp to holes in the pump foot. Use the provided screws to clamp the pump to the power unit handle.



Next remove the two reservoir mounting bolts on the side opposite the power unit controller. Align the holes in the heater controller mounting board with holes in the power unit that were just removed. Replace the bolts and tighten securely.



Then place the heater controller-mounting clamp onto the mounting board so that they are aligned with the holes closest to the power unit. The tabs of the mounting clamp should be facing away from the power unit. There should also be a gap between the tab and the spacer. Use the provided hardware to attach the mounting clamp to the mounting board. DO NOT install screws into the front holes at this time.

Now slide the heater controller into position, so that the plug-in ports are facing away from the power unit and the feet of the heater controller are seated firmly under the mounting clamp. Once the heater controller is in place, use the provided nut and machine screws to attach the Heater/Controller to the mounting board.



Pre-cut lengths of PVC have been provided. Apply PVC cleaner to both faces of the joint prior to gluing for every glue joint. Take the 6-1/2" long piece of pipe and glue the female end of a male slip x female slip elbow (street elbow) onto one end and glue a pump union onto the other. Make sure that the union nut is in place prior to gluing. Finally, glue a heater controller union half onto the male end of the street elbow. Once this assembly has been glued together, connect the pump to the heater controller. Make sure that there is an o-ring between the pump union and the pump discharge and there is a T-Gasket between the heater controller union nut and the union half.



Next, take the 4-1/4" long piece and glue a slip x slip 90° elbow onto one end. At the other end of this pipe another street elbow will be glued on, but the 2 faces of the elbows must be aligned. This can be accomplished by placing both faces of the elbows onto level ground immediately after the second elbow has been glued on. This will force the elbows to be facing the same way.

Now take this assembly and glue a heater controller union half onto the male end of the street elbow. Connect the union half to the heater controller so that the slip x slip elbow is down and facing the under the mounting board.

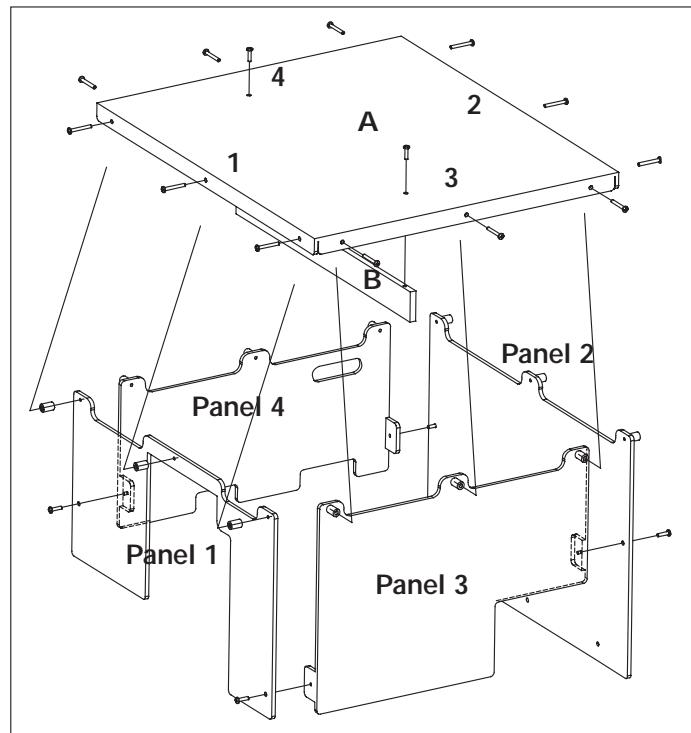


Cut a length of flex PVC from the roll so that when glued into the slip x slip elbow the opposite end of the pipe is just beyond the base. Then glue a valve onto the end of that pipe. Finally, use the flexible pipe to connect the valve to the return fitting union on the pool.

Cut a 2-1/2" length of flexible PVC and glue that into the suction fitting on the pump. Glue a valve onto that short piece of pipe. Then glue a length of PVC between that valve and the suction fitting on the pool.

## FASTLANE POOL EQUIPMENT HUTCH ASSEMBLY

1. Begin by attaching the PVC support (B) to the underside of the lid (A). Two supports have been provided and are labeled. One support will be for a 60hz power supply and one support will be for a 50hz power supply. Choose the support that is appropriate for your application. If you are unsure which power supply you have, refer to the specification plate on the motor.
2. Next, assemble the four vertical panels. The textured side of the panels will be facing out and each panel will be labeled on the inside face. Panels 1 and 2 have no tabs on the vertical edges while panels 3 and 4 do. Position the panels so that 1 is opposite 2 and 3 is opposite 4. Align the holes in panels 1 and 2 with the tabs of 3 and 4. Use the shorter screws to attach the 4 panels together.
3. The underside of the lid will have 1-4 engraved on each side. Line up the numbers on the underside of the lid with the corresponding vertical panel. Use the longer screws to attach the lid to the vertical face. Make sure that there is a cylindrical space between the lid and the vertical face at each screw.
4. Remove the mounting bracket and adhesive protective film of the heater controller keypad. Feed the keypad cord into the oval hole in panel 4. Press the keypad firmly against the panel. Feed the mounting bracket back over the keypad cord and tighten it against panel 4.
5. Once the Water Quality System is fully assembled, place the weather guard over the entire power unit so that the opening in panel 2 is seated around the power unit controller.
6. Align the 3 holes in the bottom of panel 1 with the holes in the water quality base. Use the short screws to attach the weather guard to the base.



## ELECTRICAL REQUIREMENTS AND CONNECTIONS (60Hz)

Consider the electrical requirements for the specific installation before locating the Water Quality System and gluing the plumbing parts. Different option packages require different plumbing and electrical configurations.

### Standard Fastlane Pool package with no heater

A licensed electrician should make all electrical connections. The standard package will require a two-wire (plus ground) 220 volt 30 amp GFCI Power Supply. The power unit controller may have to be attached to the power unit. If not done so already, connect the power unit as directed. There are two electrical whips attached to the controller. The shorter one needs to be connected to the power unit motor. The longer whip is going to be pre-wired into the LINE side of the contractor in the controller, which will then need to be connected to the incoming power supply. The white wire in the long whip will be unused in this application.

Please refer to the following step-by-step instruction for supplying power to the circulating pump.

1. Cut the plug of the cord and strip back and expose the 3 wires.
2. Remove one of the unused 1/2" knockouts in the bottom of the Controller Box that is attached to the Hydraulic Power Unit. Slide the liquid tight fitting over the cord of the WQS pump with the compression nut end first. With the liquid tight fitting still loose on the cord, push the threaded end of the fitting into that hole in the Controller Box and determine the length of cord that will need to feed into the box.
3. When the correct length is determined, tighten the compression nut on the cord. Then feed the locknut over the cord and thread the locknut onto the fitting to securely affix it to the Controller Box.
4. On the contactor located inside the Controller Box, attach the WQS pump's cord to the LOAD side of the contactor. The black wire goes to terminal R1, the white wire goes to terminal R3, and the green wire goes to the ground bus bar on the bottom of the Controller Box.

### Fastlane Pool package w/ Optional Heater Controller

A licensed electrician should make all electrical connections. This option will require a three-wire (plus ground) 220 volt 30 amp GFCI Power Supply. The power unit controller may have to be attached to the power unit. If not done so already, connect the power unit as directed. There are two electrical whips attached to the controller. The shorter one needs to be connected to the power unit motor. The longer whip is going to be pre-wired into the LINE side of the contractor in the controller, which will then need to be connected to the incoming power supply. The white wire will need to be connected to the load neutral of the 30amp GFCI breaker (the neutral pigtail needs to be connected to the neutral bus bar inside your breaker panel). A third electrical whip will be provided with the heater controller. That will be wired into the contactor as well. The WQS pump and heater controller will only run when the swim current is not in use, but the keypad will always have power.

Please refer to the following step-by-step instruction for supplying power to the heater controller:

1. Power is supplied to the system by connecting the existing whip on the power unit control box to the shut off installed by your electrician.

2. Connect the whip, provided with the heater controller, between the unused knockout in the power unit controller and the knockout in the top left of the heater controller.
3. Inside the heater controller, connect the black wire to terminal L1, connect the red wire to terminal L2, connect the white wire to terminal N, and connect the green to terminal B. All four terminals will be color-coded.
4. Inside the power unit controller, connect the four wires coming from the heater controller to the contactor as follows: connect the black wire to terminal R2 (top left), connect the red wire to terminal R3 (bottom right), connect the green wire to the ground bus bar at the bottom of the control box, and connect the white wire to other white wire that is coming from the incoming power supply.
5. Plug the circulating pump into the CP port on the heater controller.

Wiring diagrams are available at the back of this book.

### Fastlane Pool Package with optional 55,000 BTU Gas or Propane Heaters

A licensed electrician should make all electrical connections. The standard package will require a two-wire (plus ground) 220 volt 30 amp GFCI Power Supply. The power unit controller may have to be attached to the power unit. If not done so already, connect the power unit as directed. There are two electrical whips attached to the controller. The shorter one needs to be connected to the power unit motor. The longer whip is going to be pre-wired into the LINE side of the contractor in the controller, which will then need to be connected to the incoming power supply. The white wire in the long whip will be unused in this application. Power will be supplied for both the circulating pump and the heater from the LOAD side of the contactor in the power unit controller. Endless Pools does not provide an electrical connection between the power unit and the heater; these need to be provided locally. In this application, the heater and circulating pump will be shut off when the swim current is on.

Please refer to the following step-by-step instruction for supplying power to the heater and circulating pump:

1. A two-wire 10AWG (plus ground) connection will need to be made between the power unit controller and the heater.
2. Inside the power unit controller, connect the one wire to terminal R1, connect the other wire to terminal R3, and connect the ground wire to the bus bar at the bottom of the controller.
3. The other end of this connection must terminate inside a junction box that is attached to the electrical knockout of the heater.
4. Make sure that the heater's transformer is wired for 220 volts. See the heater's owner's manual for more information.
5. Cut off the plug off of the circulating pump cord, expose the three wires inside and strip back each individual wire. Have this cord terminate inside the junction box that was connected to the heater in step 3.
6. Under one wire nut, connect all 3 ground wires (green) from the heater, the pump, and the connection from the power unit controller.
7. Under one wire nut, connect one leg of the incoming power to one of the wires from the heater and one of the wires from the pump. Under another wire nut connect the three remaining wires.

## ELECTRICAL REQUIREMENTS (50Hz)

### Fastlane Pool without Heater Wiring Instructions

A licensed electrician should make all electrical connections. The standard package will require a two-wire (plus ground) 220 volt 30 amp RCD Power Supply. The power unit controller may have to be attached to the power unit. If not done so already, connect the power unit as directed. There are two electrical whips attached to the controller. The shorter one needs to be connected to the power unit motor. The longer whip is going to be pre-wired into the LINE side of the contractor in the controller, which will then need to be connected to the incoming power supply. The white wire in the long whip will be unused in this application.

Please refer to the following step-by-step instruction for supplying power to the circulating pump.

1. Cut the plug of the cord and strip back and expose the 3 wires.
2. Remove one of the unused 1/2" knockouts in the bottom of the Controller Box that is attached to the Hydraulic Power Unit. Slide the liquid tight fitting over the cord of the WQS pump with the compression nut end first. With the liquid tight fitting still loose on the cord, push the threaded end of the fitting into that hole in the Controller Box and determine the length of cord that will need to feed into the box.
3. When the correct length is determined, tighten the compression nut on the cord. Then feed the locknut over the cord and thread the locknut onto the fitting to securely affix it to the Controller Box.
4. On the contactor located inside the Controller Box, attach the WQS pump's cord to the LOAD side of the contactor. The black wire goes to terminal R1, the white wire goes to terminal R3, and the green wire goes to the ground bus bar on the bottom of the Controller Box.

### Fastlane Pool with Heater Wiring Instructions

Two 220v 30amp RCD rated circuits are required when the optional electric heater has been selected. A minimum of 10AWG wire should be used for all field wiring. All connections should be made by a licensed electrician.

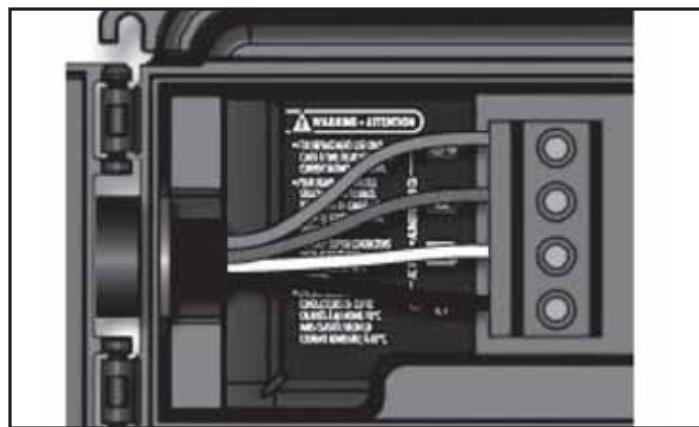
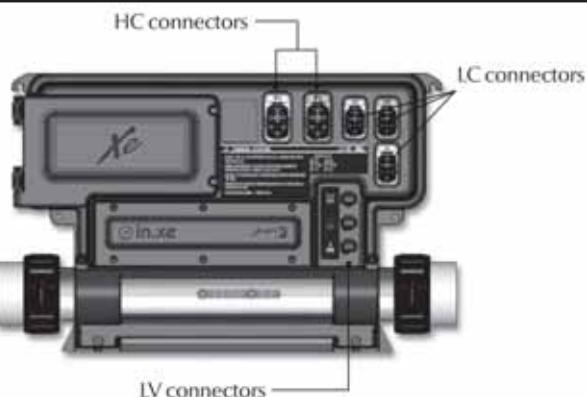
We recommend that you have your electrician install two shutoffs within 5' of where you intend to place your power unit and water quality system. These shutoffs can be installed prior to your pool being delivered. Please consult all appropriate national and local codes.

The power unit controller may have to be attached to the power unit. If not done so already, connect the power unit as directed. There are two electrical whips attached to the controller. The shorter one needs to be connected to the power unit motor. The longer whip is going to be pre-wired into the LINE side of the contractor in the controller, which will then need to be connected to the incoming power supply. Power to the heater controller is supplied by the second shut off and the heater-controller through the appropriate knockouts in these respective units. Inside the heater-controller, connect your live wire to terminal L1 (leaving the jumper wire between L1 and L2 in place), connect your neutral to terminal N, and connect your earth to terminal G. The circulating pump gets plugged into the green terminal labeled CP on the heater controller.

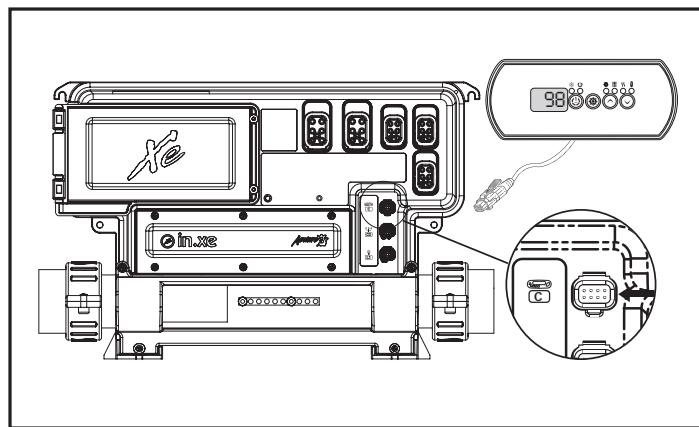
Wiring diagrams are available at the back of this book.

## HEATER CONTROLLER

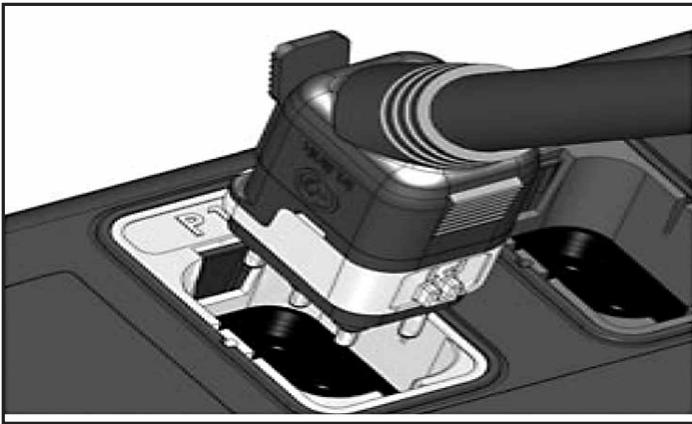
Connections simply snap into appropriate color coded receptacles.



Input wiring shown above



Keypad connection



## TYPICAL SETTINGS

Set Point : 59°F to 104°F / Factory set at 84°F  
Filter Cycle Duration: 0 to 24 hrs / Factory set at 24 hrs  
Max Set Point: 59°F to 104°F / Factory set at 104°F  
Purge Cycle Frequency: 1 to 4 times a day / Factory set at 4

## KEYPAD DOESN'T SEEM TO WORK

If a keypad doesn't seem to work:

- Verify keypad connections.
- Replace keypad if problem is corrected.
- Replace in.xe if problem is not corrected.

## in.xe UL/CSA electrical specifications:

### Input rating: 120/240 VAC

(2-phase required, with neutral) 48 A maximum, 60Hz.  
Software limited to 24A. Install on a 30A GFCI circuit.

### Output ratings:

Output	Voltage	Current	Typical Device
Out 1	120/240V	17FLA	Pump 1
Out 3	120/240V	0.8 A	Circulation Pump/Blower
Out 4	120/240V	1 A	Ozone Generator
Out 5	120/240V	5 A	Audio/Video device
L1	Light, 12VAC, 0.1 A		
CO	Communications port *		
C1	Top side controller *		

\*CO: Comm.connector (in.stik).

### heat.wav ratings:

Voltage: 120/240VAC  
Current: 17A resistive (4 kW heater at 240V)  
Frequency: 50 / 60 Hz

### heat.wav heater flow rate:

Minimum of 18 GPM is required

### Important:

- All low voltage accessories use + 5Vdc and/or + 12 Vdc.

- All low voltage accessories combined:  
150 mA max, on + 12 Vdc.

## GENERAL SPECIFICATIONS:

### Environmental:

Operating temperature: -20°C (-4°F) to 60°C (140°F)  
Storage temperature: -25°C (-13°F) to 85°C (185°F)  
Humidity: up to 85% RH, non condensing

### IPx5 level of waterproofing is conditional on 3 items:

- Both front covers (heater and input wiring) are closed and screwed shut.
- A waterproof strain-relief/bushing is used for the cable entry into the pack.
- Any unused in.link connections (HC, LC, or low voltage) is plugged with the appropriate blank plug.

### Mechanical:

Weight: 4.76 kg (10.5 lbs)

Dimensions (W x H x D):

Chassis: 441.5mm x 298.5mm x 129mm  
(17.38" x 11.75" x 5.1")

### UL/CSA Standards:

UL 1563 Fifth Ed.

File: E182156

CSA No. 22.2 - 218.1-M89.

### TUV Standards:

EN/IEC 60335 - 2 - 60

EN55014-1

EN55014-2

EN61000-3-2

EN61000-3-3

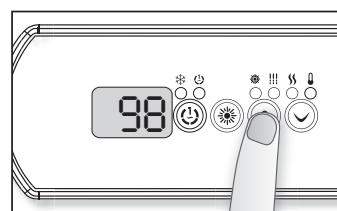
The in.xe is lab tested to IPx5 enclosure protection levels.

## in.k200 full-function keypad

The Quick Reference Card provides a quick overview of your spa's main functions and the operations accessible with your digital control pad.

## Spa Functions

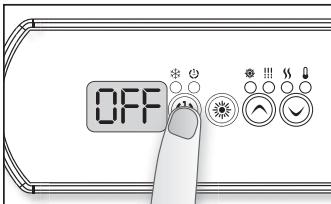
### Up/Down Keys



Use Up or Down key to set desired water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

- The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!

## Off Mode



This mode allows you to stop all outputs for 30 minutes to perform a quick spa maintenance. Press and hold Key 1 key for 5 secs to activate the Off mode. Quick press Key 1 key to reactivate the system before the expiration of the 30-minute delay.

While the Off mode is engaged, the display will toggle between OFF and the water temperature.

## TROUBLESHOOTING



**Hr**  
An internal hardware error has been detected in in.xe. Contact Customer Service.



**HL**  
The system has shut the heater down because the temperature at the heater has reached 119°F (48°C). Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.



**AOH**  
Temperature inside the spa skirt is too high, causing the internal temperature in the in.xe to increase above normal limits. Open skirt and wait until error clears.



**FLO**  
The system does not detect any water flow while the primary pump is running. Check and open water valves. Check for water level. Clean filter. If the problem persists, call Customer Service



**Prr**  
A problem is detected with the temperature probe. Call Customer Service.



**OH**  
The water temperature in the spa has reached 108°F (42°C). Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call Customer Service if problem persists.



**UPL**  
No low level configuration software has been installed into the system. Call Customer Service.

## WATER TEMPERATURE

In a heating cycle, the system first generates water flow through the heater housing and the plumbing, in order to ensure accurate water temperature readings as well as avoiding heater activation in dry conditions.

After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.



The “Heater” indicator lights up when the heater is on. It flashes when there is a request for more heat but the heater has not yet started.

## REMOTE CONTROL TRANSMITTER

The remote control transmitter has three buttons. Press and hold the On/Off button to turn the swim current on. Press and hold the Up or Down button to adjust the current to the desired speed. Press and hold the On/Off button while the current is on to turn off.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation. **WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## MODEL: EP-1g - 230 VAC, 24 AMPS, 60 Hz.

IP25 RATED RAINPROOF (TYPE 3R) ENCLOSURE SUITABLE FOR INDOOR OR OUTDOOR USE

THIS UNIT REQUIRES 60 AMP 230 VOLT AC, SINGLE PHASE WITH NEUTRAL, 60 Hz. (THREE COPPER WIRES PLUS GROUND)

### Hydraulic Power Unit

5 HP 21 FLA Amps 230 VAC 60 Hz  
6 HP 23 FLA Amps 230 VAC 60 Hz  
HEATER CONTROLLER (optional)  
24 Amps 230 VAC 60 Hz

### Controller

**IMPORTANT SAFETY INSTRUCTIONS:** Read and follow all instructions. To reduce the risk of injury, do not permit children to use this product unless supervised at all times. This control panel must be installed according to local electric code requirements. A GFCI (Ground Fault Circuit Interrupter) or RCD (Residual Current Device) circuit breaker must be used in the service panel and tested before each use in accordance with the manufacturer's instructions. The line in wire whip should be connected to a safety disconnect in sight of all equipment, but at least 5 feet away from the pool. This controller must be installed at least 5 feet away from the pool and all conductors must not share boxes, conduits or enclosures with non GFCI or RCD protected wiring. All wires must be copper. Box must be mounted with conduit down.

## USING THE FASTLANE SWIM UNIT

It is now acceptable to begin using the Fastlane Swim Unit. Remove and unwrap the two (one for use, one extra) wireless controllers from the Controller Box on the Hydraulic Power Unit (HPU). Press and hold the **ON/OFF** button to turn on the swim current.

The Fastlane features 52 incremental steps in speed. Press and release the **FASTER** button to increase the speed of the current one step at a time. Alternatively, press and continue to hold the **FASTER** button to ramp up the speed until the button is released or the maximum speed is achieved. Reduce the speed in the same manner using the **SLOWER** button.

Turn off the Fastlane by again pressing the **ON/OFF** button. Because the Fastlane “remembers” its speed setting when it is turned off, so the unit will return to that same setting the next time it is used. NOTE: The circuit card on the HPU is programmed to “ramp down” the speed of the current before completely shutting off. It will also “ramp up” the speed of the current when the unit is turned on.

The circuitry of the HPU is equipped with an automatic safety timer that will shut down the system thirty minutes after receiving its last command. If this happens in the middle of a swim, simply turn the unit on again and it will return to its previous setting.

## INSTALLING AN ANTENNA EXTENSION

The Fastlane wireless controller transmits radio waves, similar to a garage door opener. Should the Hydraulic Power Unit (HPU) be placed too far away from the Fastlane Pool, the wireless controller may not be able to perform its functions. To operate the Fastlane more effectively, it may be helpful to install the antenna closer to the pool than the HPU, so there is less of a chance of interference occurring. A longer length of coaxial cable can be used if needed to move the antenna even closer to the pool.

### Parts List

- 10' length of coaxial antenna cable
- Coaxial grounding block (antenna mount)

### Instructions

- If the antenna is already installed, detach it from the upper left hand side of the Controller Box mounted on the HPU.
- Attach and finger-tighten the antenna cable.
- Attach the coaxial grounding block (antenna mount) to the surface where the electrical disconnect box is mounted.
- The antenna should be just above the height of the box so that the metal box does not interfere with the wireless controller's radio waves. **NOTE: The antenna can be placed even closer to the pool by purchasing antenna cable from a local supplier.**
- Attach and finger-tighten the antenna to the upper end of the coaxial grounding block (antenna mount).

## CARING FOR THE FASTLANE POOL

Once installed, the Fastlane Pool will provide years of swimming, exercise, training, therapy and family fun with minimal maintenance required.

### The Fastlane

- Clean the intake grill of the Fastlane Swim Unit of leaves as needed.
- Wipe down the stainless steel grab bar with a Scotch Brite pad and brisk rubbing.
- Clean the acrylic housing with any typical non-ammonia, non-abrasive kitchen cleanser and a soft sponge or cloth. **Do NOT use a Scotch Brite pad.**
- Periodically check all electrical and ground wire connections and test the GFI circuit breaker for proper function.
- The hydraulic motor, which is located in the Swim Unit and submerged underwater, should be checked for wear at the end of each season. It is recommended that the motor gets replaced after three to five years of usage, depending on water quality conditions.
- Change the hydraulic fluid and filter in the HPU after every 500 hours of use.

### Pool Water Chemistry

- It is important for the long-term operation of the Fastlane that the pool water be properly balanced and in accordance with typical pool industry standards.
- As with any swimming pool, the Fastlane Pool requires water chemistry monitoring. The Water Quality System, which includes automated re-circulating, filtration, and optional heating will do most of the work on its own. However, balancing and maintaining the pool water is essential to the life and health of the equipment.
- **Maintain a minimal level (residual) of 0.5 ppm free chlorine in the pool at all times.** Adding 1/2 cup of Clorox a day will add about 0.5 ppm of free chlorine to a Fastlane Pool. How quickly that chlorine is consumed will depend upon the water temperature, swimmer load and the amount of direct sunlight the pool receives.
- Water test strips have been provided with the Fastlane Pool. The strips will help with monitoring the chlorine and pH requirements of the Fastlane Pool.
- **If the Fastlane Pool is located outside,** stabilized chlorine in granular form (should have an active ingredient of sodium dichlor) is recommended instead of Clorox.
- Pre-dissolve all dry chemicals before putting them into the pool. Failure to do so may result in bleaching or damaging the liner.
- Always have the pool's Water Quality System (the Swim Propulsion system is even better) running when adding chemicals, liquid or dry.
- Do not leave pool filled with water without proper chemical treatment and pool maintenance.
- **Do not leave pool set up without being full of water.**

## Daily:

- Test for free chlorine after swimming, or at least a few times a week.
- Add chlorine to maintain free chlorine levels between 0.5 and 1.5 ppm.
- As one becomes familiar with the chlorine demand for the Fastlane Pool, the amount of chlorine needed to maintain the residual at a minimum level of 0.5 ppm will likely become second nature, and frequency of needing to test chlorine levels will likely decrease.

## Weekly

- Check and adjust the water level. The water should completely cover the honeycomb grill where the current is produced. Water levels greater than 1/2" lower than this can create a choppy current and may cause the skimmer to draw air into the plumbing lines. Having the water level 1" or more higher than that honeycomb grill can cause more water to splash out of the pool.
- Test the pH level at least twice a week. Broadcast (i.e. pour chemical into the current) pH increaser or pH decreaser to maintain levels between 7.4 and 7.8.

## Winterizing the Fastlane Pool

- Take the Fastlane Pool down and/or re-install it indoors if desired when living in an area where harsh winter weather occurs.
- "Winterizing" is specific to the climate in which the pool is located. "Winterizing" generally refers to the treatment of the water in the pool, draining the pool water below the Fastlane Swim Unit and draining the equipment, but the pool structure alone requires no special attention.
- If it is desired to winterize the Fastlane Pool, the water level must be drained below all wall fittings and below the Fastlane Swim Unit. Additionally, the plumbing fittings need to be disconnected from the pool wall at the respective unions and stored in a dry and safe place. Be careful not to lose the o-rings of the unions if doing this.
- If storing the pool, thoroughly clean and dry the liner before carefully rolling it up.
- Store the pool and Fastlane Swim Unit in a dry safe place. Store the structural parts separate from the liner (preferably in boxes) to protect the liner from damage.
- It is okay for the Hydraulic Power Unit to remain outside with the hydraulic run hoses in the wintertime, as the fluid inside will not freeze. The hydraulic run hoses will need to be capped, however, to prevent any fluid from draining out.
- Please contact Endless Pools Customer Service Department at 1-800-910-2714 with any questions or concerns.

## Disassembling the Fastlane Pool

- Unhook the hydraulic hose connections at the Hydraulic Power Unit and cap all ends to prevent hydraulic fluid from draining.
- Pull the hydraulic hoses through the grommet holes (if applicable) and lift the Fastlane Swim Unit with hanger from the pool wall. Pull the Fastlane Swim Unit out of the pool carefully so as not to damage the pool liner fabric.
- Once the pool is drained, reach in each corner pocket and pull the liner away from the top rail tubes.

- Once the liner is loose from the top rail, walk around the outside perimeter of the pool moving the wall back and forth to loosen the top rail and corner pieces.
- Begin disassembling Fastlane Pool by removing the corners from the structure. **Be very careful to slowly pull the corners from the top rails. Jolting or forcing the corner out of the top rail can create a tear in the corner of the liner.**
- Once the corners are off, lift the top rails off of the struts and disassemble the remainder of the pool. Be sure the liner is clean and fully dry before storing.

## Water Quality System

### Filter

- After 24 hours of filtering following the addition of chlorine, bleed off any air at the filter and note the pressure (read the pressure gauge) on a test log sheet.
- If the pool has been contaminated with any debris during installation, it may be desirable to clean or exchange the cartridge filter at this time.
- Typically, the cartridge should be removed or replaced when the filter pressure rises 5 psi above the starting pressure.
- For indoor installations with little to moderate use, this may only be necessary once every few months.
- The filter pressure should be checked every two weeks.

## Nature 2 Replacement Instructions

The Nature 2 purifier should be replaced every 3–4 months. One cartridge will sit in the skimmer basket. Use the small stickers included in the box on a pool maintenance calendar to note the necessary change date. Replacement cartridges (after the first set) can be purchased by calling the Endless Pools Customer Service Department at 1-800-910-2714, visiting [www.myendlesspool.com](http://www.myendlesspool.com) or from a local pool store.

## PLACARDING THE FASTLANE POOL

Place the included eight no diving into pool/keep children supervised at all times stickers on all four sides of the pool, on the inside and outside top rail area of the liner, before using the Fastlane Pool.

**NO DIVING into the Fastlane Pool.  
Please keep children supervised at ALL times!**

Endless Pools is an industry leader in customer service.

Please call the Endless Pools Customer Service Department at 1-800-910-2714 with any questions or inquiries regarding the Fastlane Pool.

Additional water quality and swimming products are always available at [www.myendlesspools.com](http://www.myendlesspools.com)

## RETRACTABLE SECURITY COVER INSTALLATION

Retractable Cover Parts Kit

### Container A

Qty 1 - 3" dia. PVC roller system, 102" long, inside of which will be...  
Qty 4 - 7'-4" lengths of cover track, longer pools will have an additional...  
Qty 1 - 7'-4" track piece, and...  
Qty 2 - Cover track splice pieces  
Qty 1 - Box of 25 self-drilling fasteners (Phillips head, reamer tip, 12-24 galvanized, 2" long)  
Qty 1 - One pound box epoxy coated deck screws (Quad driver head, 2" long)  
Qty 4 - 3/8" lag bolts (9/16" head, galvanized, 2" long)  
Qty 4 - 3/8" ID washers, galvanized  
Qty 24 - Stainless steel screws (Phillips head, 1 \_" long) to attach cover track to deck

### Container B

Qty 1 - Cover fabric, 8'-6" wide  
Qty 1 - Optional cover pump (for outdoor installations)  
Qty 1 - Retractable Cover Hardware Kit, containing...  
    Qty 2 - White aluminum roller brackets  
    Qty 1 - White aluminum crank handle  
    Qty 2 - 1/4" bolt  
    Qty 2 - washers  
    Qty 2 - black plastic rings  
    Qty 2 - Black wheels w/ hub assemblies  
    Qty 2 - Cover track splice pieces  
    Qty 2 - Track end guides, nylon  
    Qty 2 - Track end caps, nylon  
    Qty 2 - 1/2" Stainless steel pinning screws  
    Qty 2 - Rope end guides (left and right)  
    Qty 2 - Lengths white rope (one with end clips, one with handle)  
    Qty 1 - Package of plastic anchors for track screws – discard  
    Qty 1 - Package of 1 1/2" stainless steel wood screws – discard  
    Qty 1 - Package of 6 tek screws (#10 Phillips head, 410 ss, 1" long)

### Container C

Qty 1 - Aluminum leading edge, 102" long

### Decking to be purchased locally

Qty 6 - 10' long 5/4" cedar decking (5 3/8" wide) or lumber of choice  
    All cut down to 8'-11" planks  
Qty 4 - 14' long 5/4" cedar decking or lumber of choice  
    (use 18' long planks for 8 x 17 Fastlane Pool)  
        • Two cut down to 12'-1" planks (or 16'-1" for 8 x 17 Fastlane Pool)  
        • Two cut down to 12'-9 1/2" planks (or 16'-9" for 8x17 Fastlane Pool)

### Tools Required

Power Drill	3/16" Drill Bit
200 Grit Sandpaper	Circular or Miter Saw
Socket Wrench w/ 9/16" Socket	Jig Saw
Hand Saw	

### COVER INSTALLATION INSTRUCTIONS

Decking around the Fastlane Pool should only be done once the pool is assembled, filled with water, and the Fastlane and Water Quality Systems are running.

To install the retractable cover on a Fastlane Pool, a deck must first be constructed around the perimeter of the pool. Decks can be made any width and they often are built to integrate into the pool's surroundings. A very simple decking structure that is the minimum to accommodate the cover system for the Fastlane Pool is described below. This system uses 5/4" cedar decking that is readily available at local lumber yards and home supply centers, but if desired, other materials can be substituted for the 5/4" cedar. The joining methods are intentionally very simple for this project, and if desired, longer lengths can be achieved by adjoining two smaller boards together. The task envisioned is a quick weekend project for a handy person. However, before beginning this project, the pool must be assembled, filled with water, and the Fastlane and Water Quality Systems must be running properly. It is most helpful if the pool frame is installed as close to level as possible.

### Building the Deck

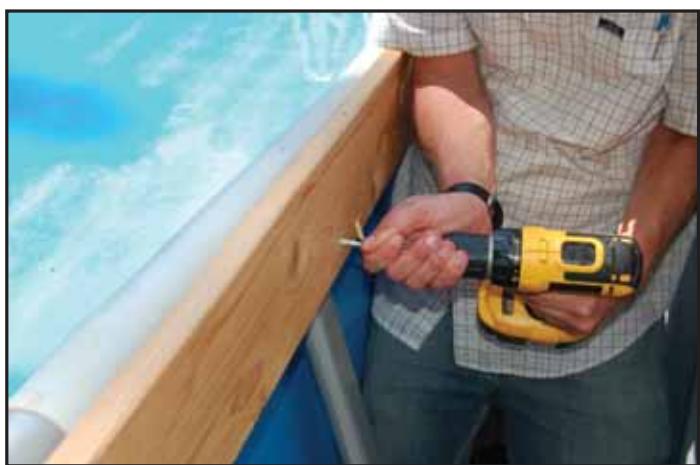
1) Using eight of the provided self-drilling fasteners, attach two 8'-11" cedar planks to the front (propulsion unit end) of the



pool. The upper board should be mounted just below the acrylic Fastlane hanging bracket that grabs the top rail of the pool. Both boards should be level and centered along the front of the pool, and four fasteners should be used per board, two at each vertical support strut.



- 2) Using the provided 2" deck screws, attach the third 8'-11" cedar plank to the top of the two planks that are already attached to the pool frame so that the top edge of this third plank is flush with the top of the pool.



the top edge of the plank should be flush with the top of the pool.



- 3) Along the length of the pool on both sides, attach the 12'-9 1/2" cedar planks to the vertical struts using one self-drilling fas-

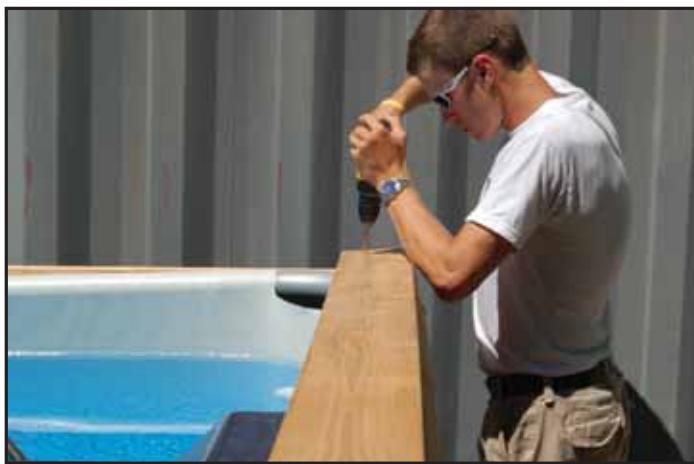
- 4) At the front of the pool, lay another 8'-11" plank flat against the top edge of the vertical plank and the top of the pool's frame,



making sure the ends of the top plank line up with the ends of the vertical plank. The top plank should overhang into the pool enough so that its back edge completely covers the vertical



should line up with the ends of that 8'-11" plank as well. Use the 2" deck screws to secure these horizontal top planks to the vertical planks on which they rest. Once installed, there will be an approximate 3" overhang created by the top planks along the sides of the pool over the vertical planks along the sides of the pool.



plank's top edge. Use the 2" deck screws to secure this horizontal top plank to the vertical plank on which it rests.



6) The final two 8'-11" planks of 5/4" cedar decking are used at the rear of the pool. Place one piece flat against the struts so that the top edge of the cedar is level with the top rail of the rear of the pool. The ends of this plank should align with the edges of the top planks (that were just attached) along the sides of the pool. Using two self-drilling fasteners (one fastener per strut), attach this plank to the pool's vertical struts.



5) Along each side of the pool, attach a 12'-1" plank flat against the top edge of the vertical planks and the top of the pool's frame. The ends of these planks should butt against the top 8'-11" plank at the front of the pool, and the edges of these planks



- 7) In order to best accommodate the ladder, create a notch measuring 22 1/2" long and 2 1/2" deep in the center (or in a preferred ladder location) of the final 8'-11" cedar plank. Do not



discard this piece that has been cut out, as it will be later used to help attach the ladder to the pool deck.



- 9) Using the scrap cedar plank material from when the original planks were cut, place one end of the drop-off against the edges of cedar planks at the front (right and left) corners of the pool.



Trace the horizontal top surface along the scrap piece, and cut the piece so that the angle makes an attractive cover piece for

completely covers the vertical plank's top edge, and it fits neatly between the edges of the two top planks along the sides of the pool.



the front corners of the pool. Repeat for the other side, and use the 2" deck screws to attach these pieces to the front corners of the pool.

brackets and lag bolts (to be installed in a future step) will have a rigid surface to mount against and bite into, allowing the cover roller to function properly.



- 10) Again, following the same concept that was discussed in the previous step, use scrap material to create a vertical decking surface at the front (right and left) corners of the pool. This



short plank will be installed planar with the horizontal top cedar plank (installed in Step 2 of Building the Deck), and will be trimmed so that its bottom does not extend below the other cedar planks already installed at the front of the pool. These corner areas must be planar with one another so that the cover

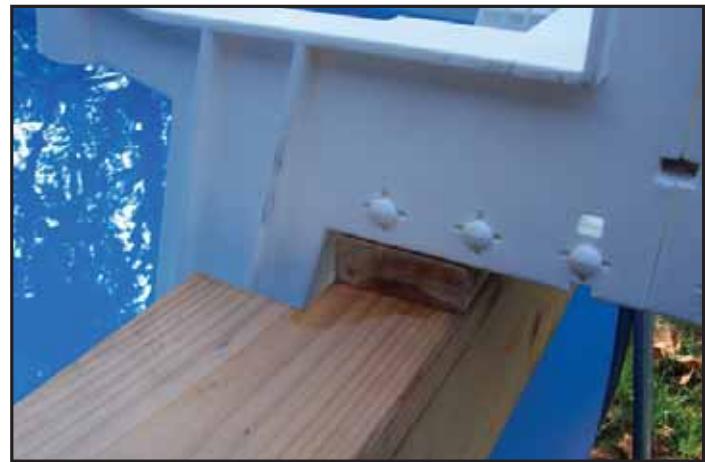
## INSTALLING THE LADDER

When using a retractable cover with the Fastlane Pool, the ladder (assembled as per the instructions included in its box) must be placed at the rear of the pool so that it does not interfere with the operation of the cover. To allow the retractable cover's fabric to optimally cover the water's surface area in the rear of the pool, it is best to notch the ladder as described below. This work should be done before the ladder is positioned in the pool, and will require a hand saw, sandpaper, and the same drill with Phillips head bit that was used to assemble the deck.

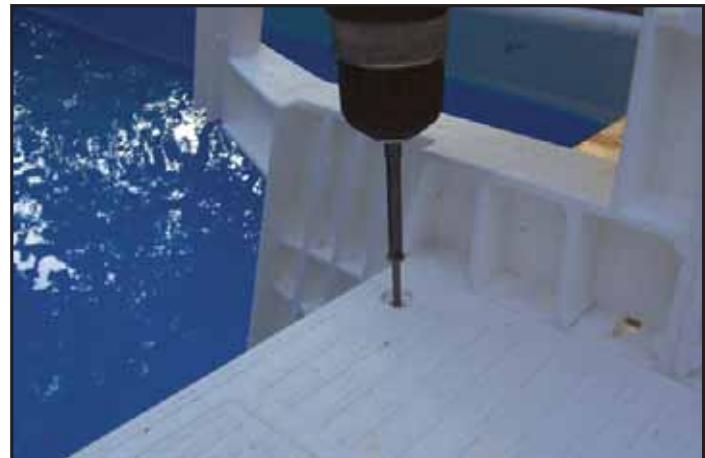
- 1) Working only on the part of the ladder that will be inside the pool, a handsaw should be used to cut the lower parts of the ladder's hand rails free from the body of the ladder. The first cut should be made at the hand rail's lower support so that the



cut surface is flush against the main body of the ladder. A second cut should be made immediately underneath the hand rail's upper support that extends from the platform level of the ladder, and the cut surface should be flush against the underside of the upper support piece, thus freeing the lower portion of the hand rail from the ladder body. Be sure to perform these two cuts on both of the ladder's hand rails that will be inside the pool. Once the lower portions of the hand rails have been removed, the rough surfaces where all four of the cuts have been made can be sanded smooth.



- 2) Place the notch cutout piece (saved from Step 7 of Building the Deck) on the horizontal deck plank at the rear of the pool so that the outside edge of the piece is flush with the outside edge of the plank, and the middle of the piece is centered within the edges of the previously made cutout. Use two of the 2" deck screws to attach the notch cutout piece to the rear plank, being careful that the tip of the screw does not touch the pool fabric and that it does not damage the top rail of the pool frame.



## INSTALLING THE COVER

- 1) Lay the tracks on each side of the pool so that the opening in the track is facing towards the water. The track should be flush with the inside edge of the decking. For the standard length Fastlane Pool, one length of 7'-4" track needs to be cut down to 5'-6" for each side of the pool. (For the longer 8 x 17 Fastlane Pool, an additional 7'-4" piece has been included in the shipment, and needs to be trimmed to two lengths of 2'-2". In this case, two 7'-4" lengths and a 2'-2" length of cover track are used on each side of the pool.) When installed, the total track length should be 12'-10" for a standard Fastlane Pool, and 16'-10" for the longer Fastlane Pool. The inside distance between the two tracks should be approximately 8'. The fabric is 8'-6" wide and is designed to rest on the water surface.

- 3) Lift the ladder assembly over the decking and into the pool so that it now straddles the decking along the top rail at the rear of the pool. Position the ladder in the pool so that the back of



2) Install the track splice between the adjoining tracks. Slide the plate into the extrusion end of both tracks before placing the second track on the deck. Two extra splice plates have been included for the longer Fastlane Pool to help secure the extra 2'-2" long cover track extrusions.



4) Slide the hub into the end of the 3" PVC pipe and attach the hub to the pipe using the self tapping screw that was provided with the rocky roller kit. Slide the black plastic bushing over the hub end.



3) Insert black end guides into the end of the track near the roller at the front of the pool. Refer to Figure 1 and use the provided 1 1/4" stainless steel wood screws to secure the track to the wood. **Note:** Do not use the mounting hardware found in the Retractable Cover Parts Kit.



5) Insert the hub end into the white roller bracket and place the black plastic washer over the hub end.



6) Slide the handle over the hub and secure it to the hub using the 5/16" bolt and washer.

7) Repeat the process for the other end of the pipe, but install the white knob instead of the handle.

8) Place the roller assembly onto the front of the pool so that the foot of the roller bracket is aligned with the top edge of the vertical cedar plank. Using the oval slots in the foot of the roller bracket, mark the plank for pre-drilling the lag bolt holes into the wood.



9) Pre-drill the holes for the lag bolts using a 3/16" bit. On one side, start two of the provided lag bolts (with washers) into the pre-drilled holes. Slide the roller bracket onto these lag bolts, and then tighten them to loosely anchor the roller bracket to the cedar plank.



11) Unfold the cover fabric so that the Cover Pools label is facing up. There is a beaded edge on three sides of the fabric; two long sides and an end. Slide the leading edge onto the end bead so that the eye hooks on the leading edge are angled up. Center the leading edge on the fabric and secure by threading a 1/2" pan head screw into the bead through one of the pre-drilled holes in the leading edge at each end.



10) Now repeat the process at the other end of the pool for the other anchor bracket. Drill the hole, and using the washer and lag bolt, loosely anchor that roller bracket to the plank. Once comfortable that the roller mechanism is level and that it functions properly, tighten all lag bolts to secure the brackets and roller mechanism in place.

12) Remove the top half of the black end guide. Bring the leading edge and fabric up to the track guide. Slide the long side beaded edge into the track opening and pull the fabric all the

way across the pool. Replace the black end guide top half.



If necessary, dry silicone can be used to lubricate the track in which the cover slides. This will make the operation of the cover easier.

## OUTDOOR INSTALLATIONS

For outdoor installations, place the cover pump on top of the cover. Attach a garden hose to the water outlet and leave the pump plugged into a GFCI outlet. The pump will turn itself on automatically when the level of water on the cover is sufficient to satisfy the internal float level.



- 13) Fasten the fabric to the 3" PVC drum using the provided 1/2" pan head screws.

Figure 1

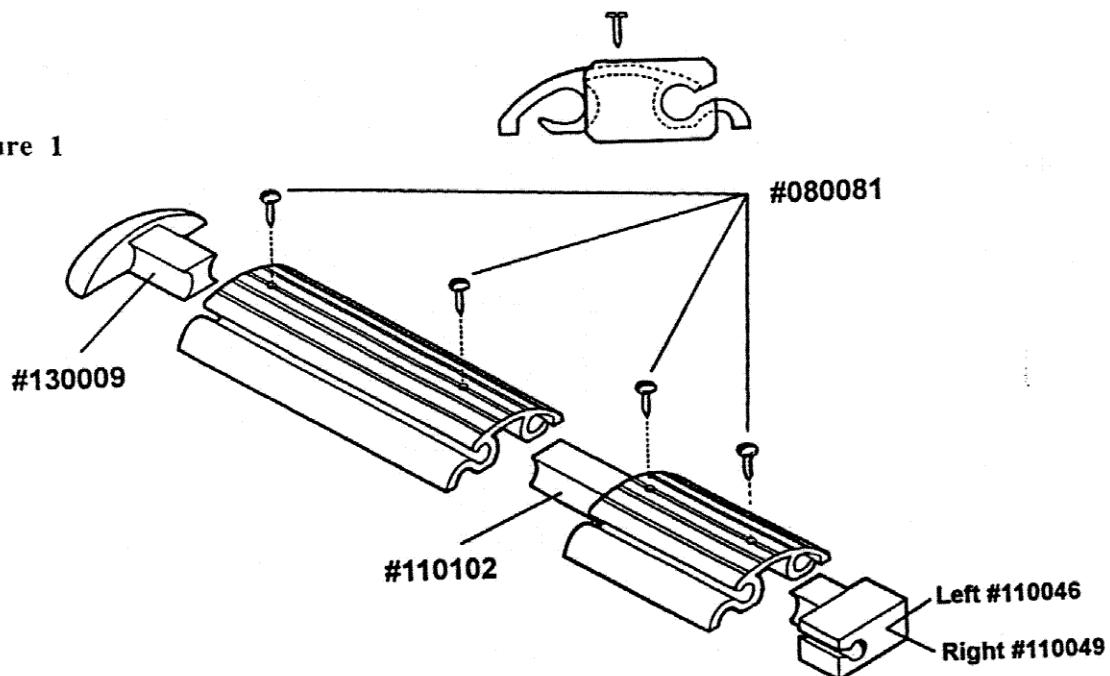


Figure 2

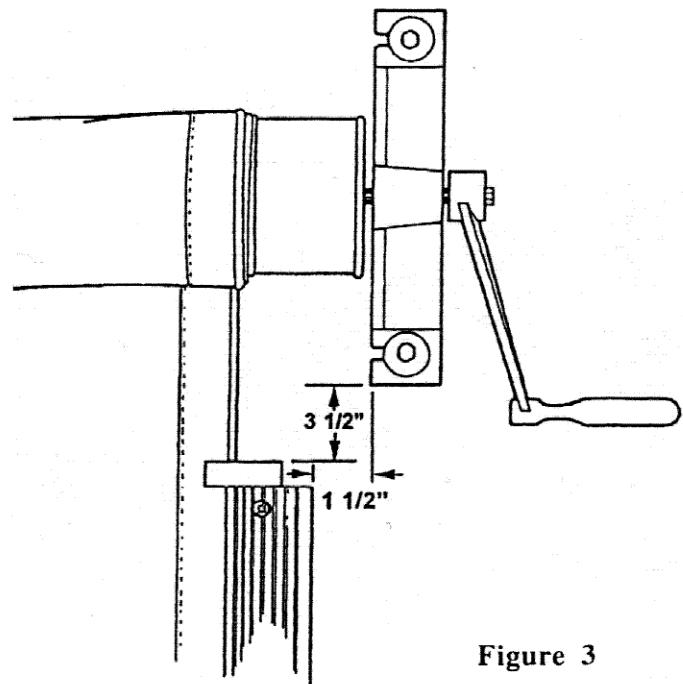
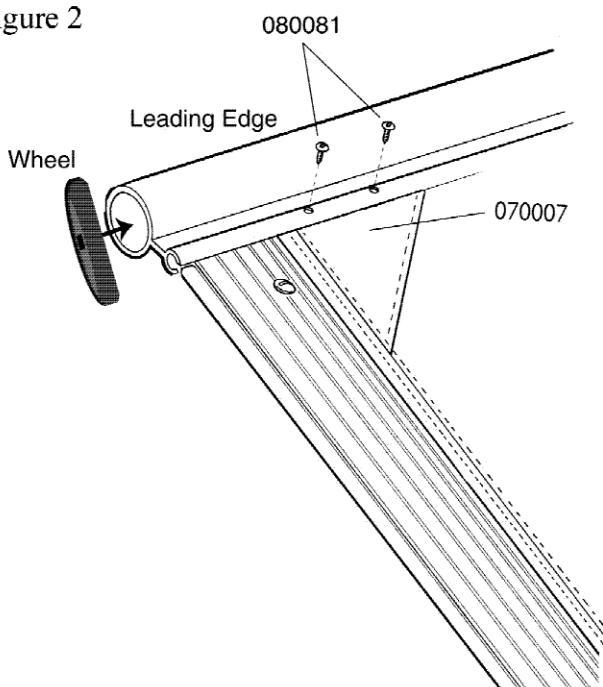
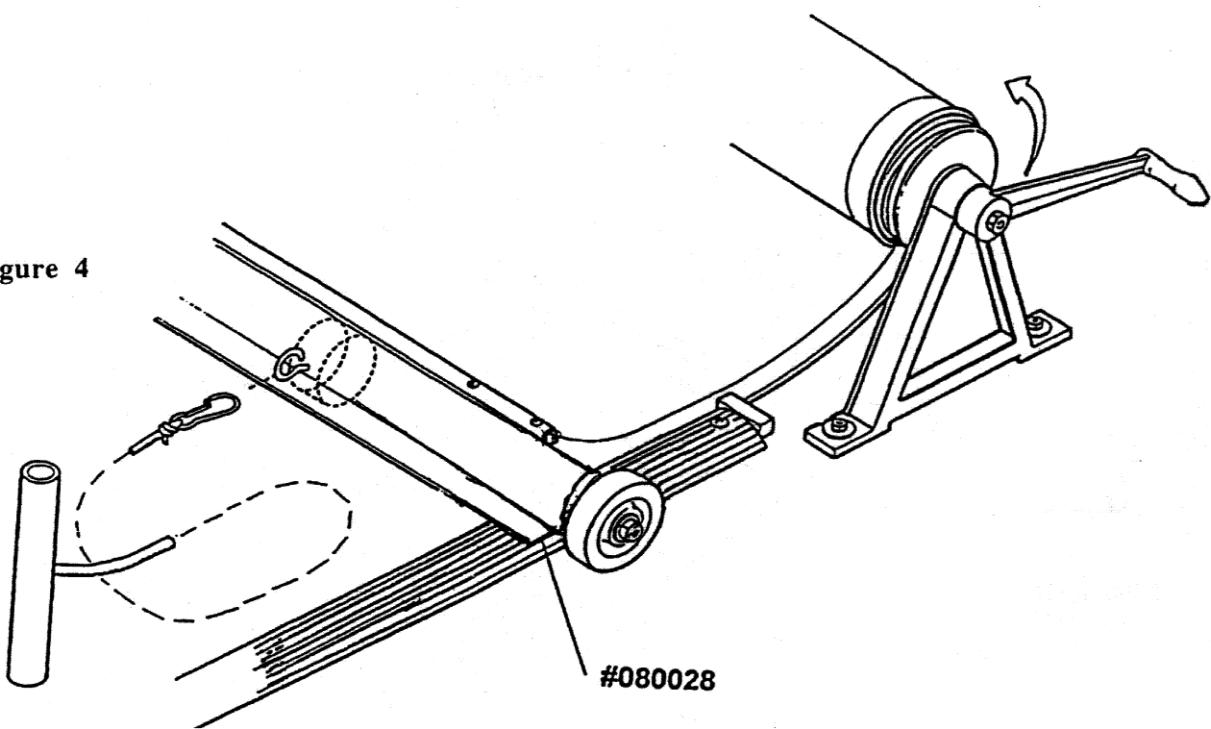
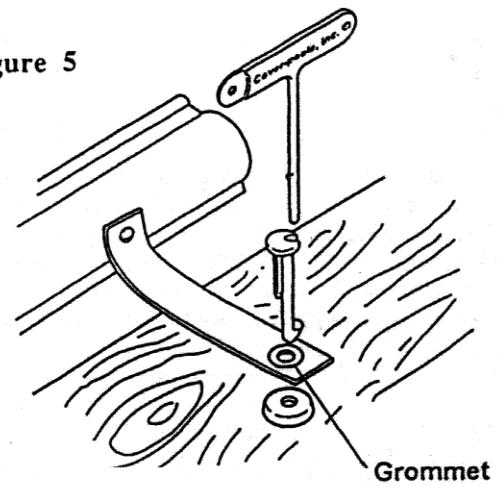


Figure 3

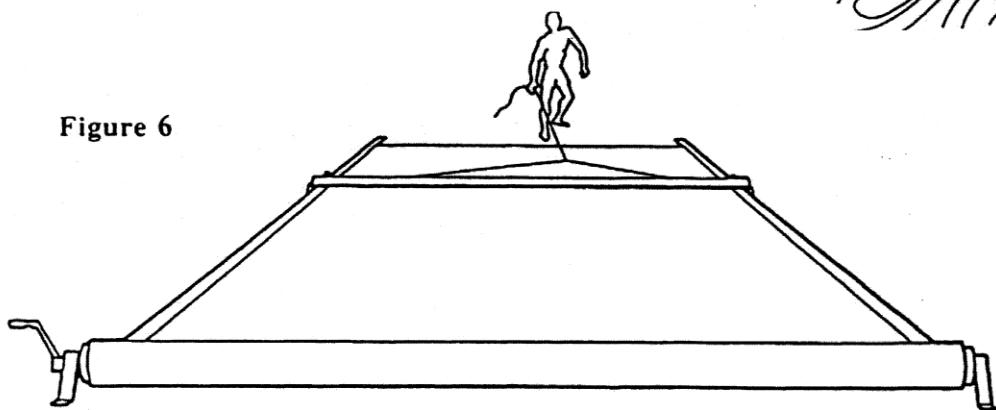
**Figure 4**



**Figure 5**

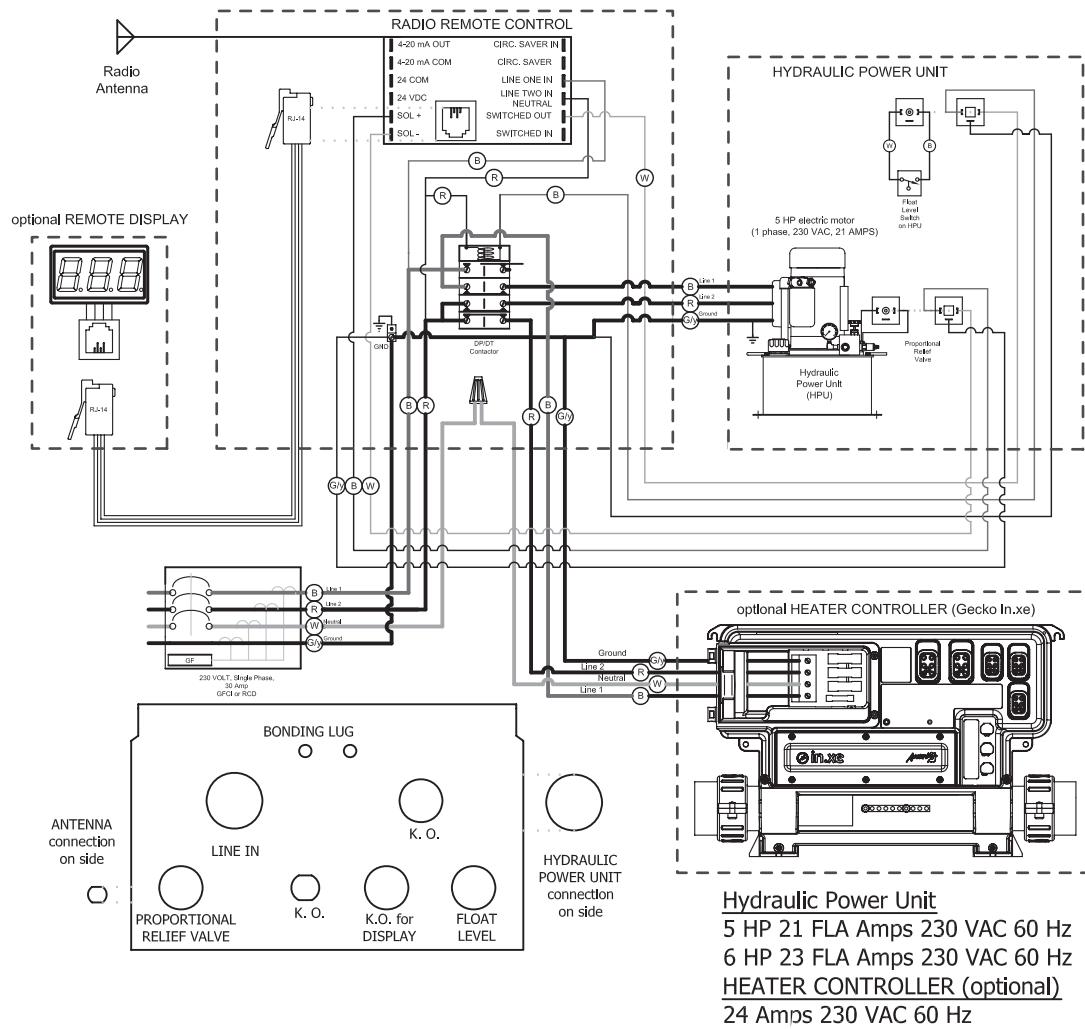


**Figure 6**

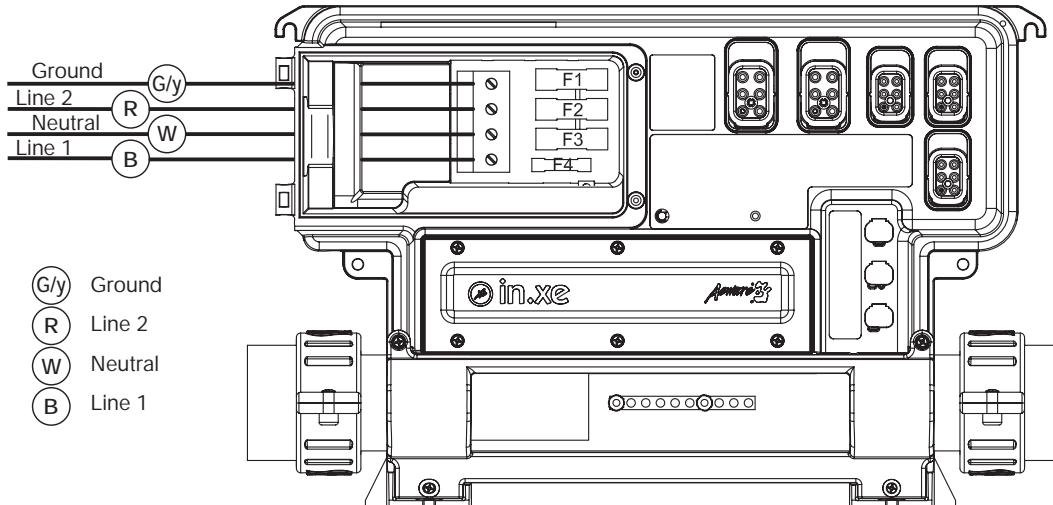


# Wiring Schematic for 60hz Power Unit

230v, 24 amp, single phase

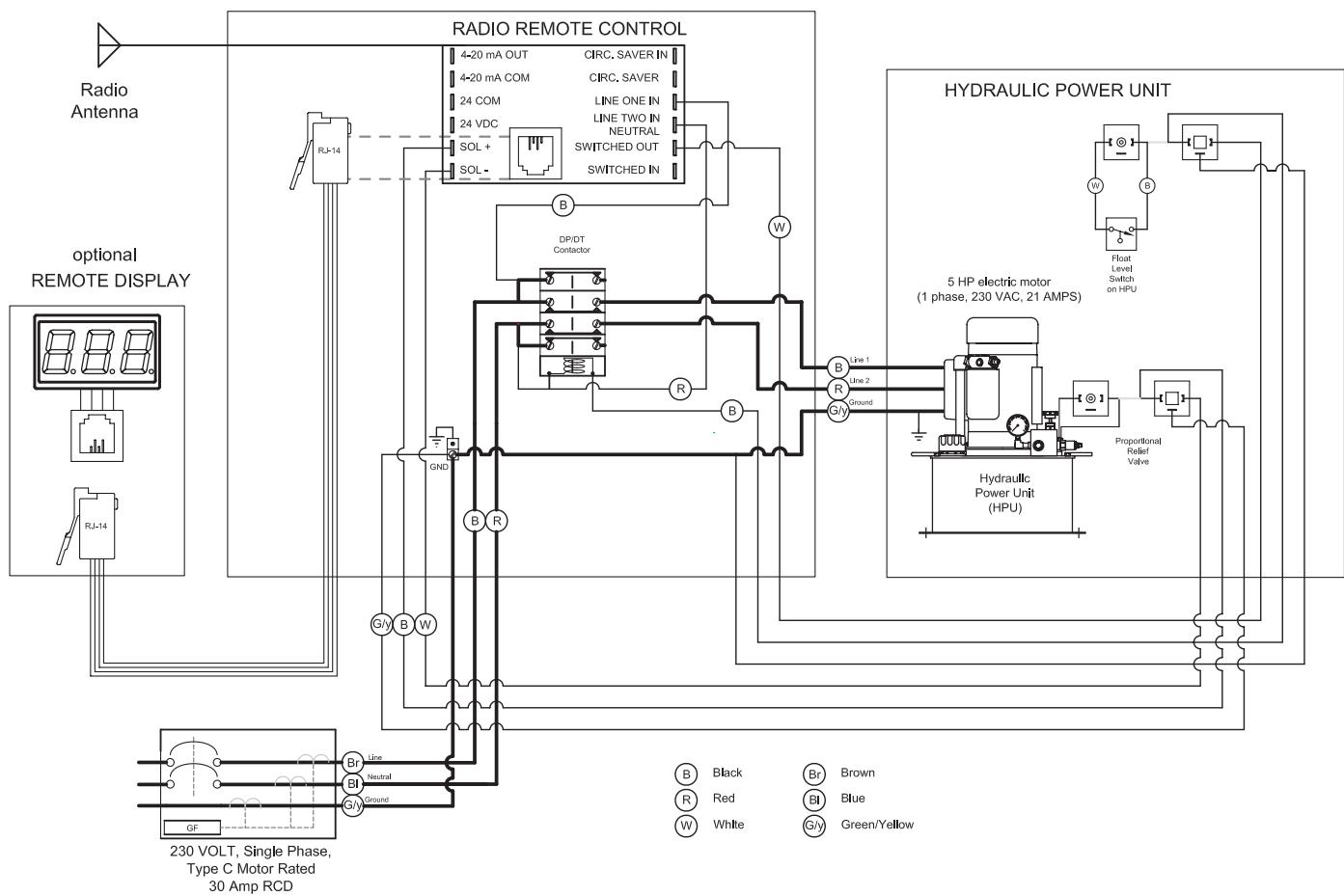


## Wiring Schematic for 60hz Heater/Controller

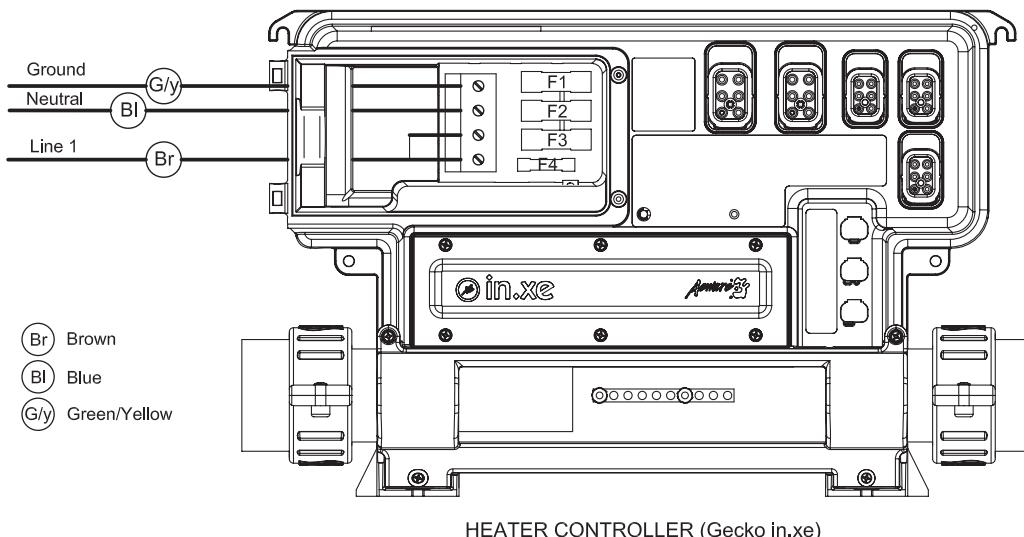


# Wiring Schematic for 50hz Power Unit

220v, 30 amp, single phase



## Wiring Schematic for 50hz Heater/Controller



## **FASTLANE POOL™ LIMITED WARRANTY**

ENDLESS POOLS, INC. WARRANTS TO THE ORIGINAL PURCHASER OF THE FASTLANE POOL MANUFACTURED BY US TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP UNDER NORMAL USE FOR TWO YEARS FROM PURCHASE.

Our obligation under the warranty shall be limited to the repair or exchange (at our option) of any part or parts which may thus prove defective under normal use within two years from date of purchase by the original purchaser, and which our examination shall disclose to our satisfaction to be thus defective. All labor costs for removal and re-installation of the defective part and all freight charges shall be paid by the purchaser and will not be reimbursed by Endless Pools, Inc. This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and of all other obligations or liabilities for all damages direct or consequential to person, property or business whether or not occasioned by our negligence, and we neither assume for us any other liability in connection with the sale of this Fastlane Pool.

IN ADDITION, ENDLESS POOLS, INC. OFFERS A TEN-YEAR STRUCTURAL WARRANTY ON THE POOL LINER AND METAL STRUCTURE FRAME. If a component should deteriorate beyond structural use in this ten-year period, we will repair or replace the component at our option after receipt and inspection of the defective part. The structural warranty is voided when suitable drainage is not provided, and/or parts are not properly bonded, as stipulated in the installation instructions.

THIS WARRANTY SHALL NOT APPLY TO THIS FASTLANE POOL OR ANY PART THEREOF, WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, FREEZING, IMPROPER INSTALLATION OR OPERATION, ALTERATION, ABUSE OR MISUSE. THIS INCLUDES, BUT IS NOT LIMITED TO, FLOW RESTRICTIONS OR OBSTRUCTIONS ON ALL WATER AND HYDRAULIC SYSTEMS AND NOT PROPERLY BONDING OR MAINTAINING PROPER WATER CHEMISTRY (pH level must be maintained between 7.4 and 7.8 and total alkalinity between 80 and 120 ppm. The total dissolved solids (TDS) must be no greater than 3,000 ppm). POOLS USING SALT CHLORINE GENERATORS MUST MAINTAIN A SALT CONTENT BELOW 4,000 ppm AND TDS WITH SALT BELOW 7,000 ppm. Your warranty does not cover problems arising in whole or part from:

- Set-up of pool more than 3" out of level or having the pool up without being full of water.
- Acts of God, abnormal weather conditions, circumstances beyond the control of Endless Pools, Inc. or damage from plants or animals.
- Bad odors emanating from the pool liner, puncture, abrasion, or cutting.
- Aesthetic tears or rips caused by any type of undue stress during assembly/disassembly.
- Aesthetic blemishes or tears not compromising structure or pools ability to hold water.
- Accident and injury or damages from diving, sliding or jumping into the pool.
- A product used for commercial or institutional purposes.

The term "original purchaser", as used in this warranty, shall be deemed to mean the person for whom the Fastlane Pool was originally installed. This warranty shall apply only within the boundaries of the continental United States.

We DO NOT warrant this machine to meet requirements of any safety code of any state, municipality, or other jurisdiction. Purchaser assumes all risk and liability whatsoever resulting from the use thereof.

In order to claim this warrant, original purchaser must promptly notify our Customer Service Department in writing of the existence of the claim and then follow our written instructions regarding the procedures for remedying the defect. Endless Pools, Inc. shall not be responsible for cartage, transportation, removal and/or reinstallation labor or any other such costs relating to performance of the warranty. In the event any portion of this warranty shall be deemed unenforceable by a court of law, the remainder of this warranty shall remain in full force and effect as if the voided portion were never included.

Prepaid returns of all Endless Pool products are accepted less a 10% restocking fee, up to 30 days from the date of purchase if undamaged and in its original shipping containers. Accessories, options and equipment that have been used are non-refundable. Before returning any product, you must call our Customer Service Department to receive proper return authorization.



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